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Subject: How to treat real detector data?

Posted by [Ralf Kliemt](#) on Tue, 27 Jan 2009 15:03:06 GMT

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Hi all,

The Mvd test sensors are taking data which I intend to stuff into our pandaroot analysis chain. There is a task developed to read the data and put it into a clonesarray via the framework. (see <https://subversion.gsi.de/fairroot/pandaroot/development/mvddevel/mvd/Mv dDAQ rev. 4422>)

However, there are some issues with the Run objects: The CbmRunSim is not really a good option to use (it works, though) because you will start the Monte-Carlo which is not needed and which really slows the whole thing down. The CbmRunAna is more preferable, but it reads a TChain, which still has to be created. Especially the Run function is setting the eventnumber according to the Eventnumber in the TChain.

```
Toggle Spoiler if(Ev_end==0){
    if (Ev_start==0){
        Ev_end=Int_t((fRootManager->GetInChain()->GetEntries());
    }else {
        Ev_end = Ev_start;
        if ( Ev_end > ((fRootManager->GetInChain()->GetEntries()) ){
            Ev_end = (Int_t) (fRootManager->GetInChain()->GetEntries());
        }
        Ev_start=0;
    }
}else{
    Int_t fileEnd=(fRootManager->GetInChain()->GetEntries());
    if(Ev_end > fileEnd){
        cout << "-----Warning-----" << endl;
        cout << " -W CbmRunAna : File has less events than requested!!" << endl;
        cout << " File contains : " << fileEnd << " Events" << endl;
        cout << " Requested number of events = " << Ev_end << " Events"<< endl;
        cout << " The number of events is set to " << fileEnd << " Events"<< endl;
        cout << "-----" << endl;
        Ev_end = fileEnd;
    }
}
```

There are two possible solutions which come to my mind: Either we create a new CbmRun class which is there for taking CbmDetector modules (to have the panda geometry) and a list of tasks OR to set the CbmRunAna into a "DataMode" and simply skipping the eventnumber check in the Run function. Personally I'd prefer to have a CbmRunData (or CbmRunDAQ or whatever).

I'd be glad to hear an opinion on that.

Cheers, Ralf.

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